

Silikon-Spray 400 ml

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 - Product identifier

Trade name/designation Silikon-Spray 400 ml
Chemical name
Product-type Mixture
UFI: 9820-A0QN-J009-17DW

1.2 - Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses

- Lubricants, greases, release products
- Consumer uses: Private households (= general public = consumers)

1.3 - Details of the supplier of the safety data sheet

ECS Cleaning Solutions GmbH
Wolfener Str. 32-34
D-12681 Berlin Germany
Telephone : +49 (0)30 / 36 46 40 36
gunnar.kleinmann@ecsag.com

Distributor

ECS AG
Talstrasse 35-37
8808 Pfaeffikon
Switzerland
gunnar.kleinmann@ecsag.com
+41 (0)44 / 787 53 53

1.4 - Emergency telephone number

Verwenden Sie Ihre nationale oder lokale Notrufnummer (Deutschland)
Tel. No.: +49(0)30-19240.
Schweizerisches Toxikologisches Informationszentrum (Schweiz)/ Centro svizzero di informazione tossicologica (Svizzera)/ Centre Suisse d'Information Toxicologique (Suisse)
Tel. No.: +41 44 251 51 51
Tox Info Suisse Notrufnummer: 145 (24 Stunden)/ Numero di emergenza Tox Info Suisse: 145 (24 ore)/ Tox Info Suisse Numéro d'urgence: 145 (24h)
Giftnotrufzentrale (Österreich)
Tel. No.: +43 1 406 4343

SECTION 2: Hazards identification

2.1 - Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Skin Irrit. 2	Irritation, Category 2
STOT SE 3	STOT-single exposure - Category 3 (H336)
Asp. Tox. 1	Aspiration hazard - Category 1
Aerosol 1	Aerosol - Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment - Aquatic Chronic 3

2.2 - Label elements

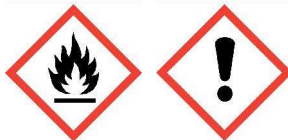
Silikon-Spray 400 ml

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Contains: Hydrocarbons, C6, isoalkanes, <5% n-hexane

Signal word : Danger

Hazard pictograms



Hazard statements

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements

P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P271	Use only outdoors or in a well-ventilated area.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501	Dispose of container/contents to an appropriate recycling or disposal facility in accordance with local/national regulation.

EUH-phrases : None

2.3 - Other hazards

PBT-substance. - This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

vPvB-substance. - This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

Other hazards which do not result in classification - In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

SECTION 3: Composition / information on ingredients

3.1 - Substances

Not applicable

3.2 - Mixtures

Chemical name	No.	%	Class(es)	Specific concentration limit
butane INCI: BUTANE	CAS No. : 106-97-8 Index No. : 601-004-00-0 EC No. : 203-448-7	>= 20 - < 25	Flam. Gas 1 - H220 Press. Gas	Not applicable

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Chemical name	No.	%	Class(es)	Specific concentration limit
Hydrocarbons, C6, isoalkanes, <5% n-hexane	CAS No. : Index No. : EC No. : 931-254-9 REACH No. : 01-2119484651-34	>= 15 - < 20	Aquatic Chronic 2 - H411 Asp. Tox. 1 - H304 Flam. Liq. 2 - H225 Skin Irrit. 2 - H315 STOT SE 3 - H336	Not applicable
propane INCI: PROPANE	CAS No. : 74-98-6 Index No. : 601-003-00-5 EC No. : 200-827-9	>= 10 - < 12.5	Flam. Gas 1 - H220 Press. Gas	Not applicable

SECTION 4: First aid measures

4.1 - Description of first aid measures

<u>Following inhalation</u>	- Provide fresh air. - When in doubt or if symptoms are observed, get medical advice.
<u>Following skin contact</u>	- After contact with skin, wash immediately with plenty of water and soap. - Remove contaminated, saturated clothing immediately. - In case of skin irritation, consult a physician.
<u>After eye contact</u>	- Rinse immediately carefully and thoroughly with eye-bath or water. - In case of eye irritation consult an ophthalmologist.
<u>After ingestion</u>	- Observe risk of aspiration if vomiting occurs. - Rinse mouth thoroughly with water. - If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

4.2 - Most important symptoms and effects, both acute and delayed

<u>Symptoms and effects - Following inhalation</u>	- No information available.
<u>Symptoms and effects - Following skin contact</u>	- Causes skin irritation.
<u>Symptoms and effects - After eye contact</u>	- No information available.
<u>Symptoms and effects - After ingestion</u>	- No information available.

4.3 - Indication of any immediate medical attention and special treatment needed

- Treat symptomatically.
- In case an intoxication is suspected, National Poisons Information Centre should be addressed immediately, number of Emergency telephone see in section 1.4.

SECTION 5: Firefighting measures

5.1 - Extinguishing media

<u>Suitable extinguishing media</u>	- ABC-powder - Carbon dioxide (CO2) - Extinguishing powder - alcohol resistant foam
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Unsuitable extinguishing media - Full water jet

5.2 - Special hazards arising from the substance or mixture

Special hazards arising from the substance or mixture

- Heating causes rise in pressure with risk of bursting.
- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- Vapours can form explosive mixtures with air.

Hazardous decomposition products - No information available.

5.3 - Advice for firefighters

- Co-ordinate fire-fighting measures to the fire surroundings.
- Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.
- Wear a self-contained breathing apparatus and chemical protective clothing.
- Use water spray jet to protect personnel and to cool endangered containers.

SECTION 6: Accidental release measures

6.1 - Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

- Remove persons to safety.
- Use personal protection equipment.
- Avoid breathing dust/fume/gas/mist/vapours/spray.
- Avoid contact with skin, eyes and clothes.
- Provide adequate ventilation.
- Remove all sources of ignition.

For emergency responders - Wear breathing apparatus if exposed to vapours/dusts/aerosols.

6.2 - Environmental precautions

- In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.
- Do not allow to enter into surface water or drains.

6.3 - Methods and material for containment and cleaning up

Methods and material for containment

- This material and its container must be disposed of in a safe way.
- Provide adequate ventilation.

Methods and material for cleaning up

- Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).
- Wash with plenty of water.

Inappropriate techniques - No information available.

6.4 - Reference to other sections

- Safe handling: see section 7
- Personal protection equipment: see section 8
- Disposal: see section 13

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SECTION 7: Handling and storage

7.1 - Precautions for safe handling

<u>Recommendation</u>	<ul style="list-style-type: none"> - Do not pierce or burn, even after use. - Do not spray on naked flames or any incandescent material. - Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. - Keep away from sources of ignition - No smoking. - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. - Provide adequate ventilation as well as local exhaustion at critical locations. - Do not breathe gas/fumes/vapour/spray. - Take precautionary measures against static discharges. - Vapours can form explosive mixtures with air.
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<u>Advices on general occupational hygiene</u>	<ul style="list-style-type: none"> - Remove contaminated, saturated clothing immediately. - Draw up and observe skin protection programme. - Wash hands and face before breaks and after work and take a shower if necessary. - When using do not eat, drink, smoke, sniff. - Heating causes rise in pressure with risk of bursting.
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7.2 - Conditions for safe storage, including any incompatibilities

- Keep locked up.
- Store in a place accessible by authorized persons only.
- Provide adequate ventilation as well as local exhaustion at critical locations.
- Keep container tightly closed in a cool, well-ventilated place.
- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- Do not store together with: Oxidising agent
- Pyrophoric or self-heating substances
- Storage class : Aerosol dispensers and lighters

7.3 - Specific end use(s)

- Aerosols
- Lubricants, greases, release products

SECTION 8: Exposure controls/personal protection

8.1 - Control parameters

butane (106-97-8)	
IOELV TWA mg/m ³ (UE)	1450 mg/m ³
IOELV TWA ppm (UE)	600 ppm

DNEL / PNEC

Hydrocarbons, C6, isoalkanes, <5% n-hexane			
Type	Value	User	Effect
DNEL long-term oral (repeated)	1301 mg/kg bw/day	Consumers	Systemic
DNEL long-term inhalative	5306 mg/m ³	Workers	Systemic
DNEL long-term inhalative	1131 mg/m ³	Consumers	Systemic
DNEL long-term dermal	1377 mg/kg bw/day	Consumers	Systemic

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propane (74-98-6)			
Type	Value	User	Effect
DNEL short-term oral (acute)	0.464 mg/kg	Consumers	Systemic
DNEL long-term inhalative	2.21 mg/m ³	Workers	Systemic
DNEL long-term inhalative	0.265 mg/m ³	Consumers	Systemic

8.2 - Exposure controls

Appropriate engineering controls

- Do not breathe dust/fume/gas/mist/vapours/spray.
- Provide adequate ventilation.
- If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

Individual protection measures, such as personal protective equipment

- Eye glasses with side protection
- DIN EN 166
- When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits.
- Protective gloves according to EN374
- Suitable material: NBR (Nitrile rubber)
- Thickness of the glove material: $\geq 0,35$ mm
- Suitable material: Butyl caoutchouc (butyl rubber)
- Thickness of the glove material: $\geq 0,5$ mm
- Breakthrough time: > 480 min.
- For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.
- Wear anti-static footwear and clothing
- This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is
- Use only respiratory protection equipment with CE-symbol including four digit test number.

Environmental exposure controls

- No information available.

SECTION 9: Physical and chemical properties

9.1 - Information on basic physical and chemical properties

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<u>Physical state</u>	Liquid	<u>Appearance</u>	Aerosol
<u>Colour</u>	colourless	<u>Odour</u>	characteristic
Odour threshold	No data available		
pH	No data available		
Melting point	No data available		
Freezing point	No data available		
Boiling point	< -20 °C		
Flash point	< -20 °C		
Evaporation rate	No data available		
flammability	No data available		
Lower explosion limit	0.6 % Vol.		
Upper explosion limit	10.9 % Vol.		
Vapour pressure	No data available		
Vapour density	No data available		
Relative density	No data available		
Density	0.73 g/cm ³		
Solubility (Water)	No data available		
Solubility (Ethanol)	No data available		
Solubility (Acetone)	No data available		
Solubility (Organic solvents)	No data available		
Log KOC	No data available		
Auto-ignition temperature	> 200 °C		
Decomposition temperature	No data available		
Kinematic viscosity	No data available		
Dynamic viscosity	No data available		

Particle characteristics

Particle size	No data available
Dustiness	No data available
Specific surface area	No data available
Shape	No data available

9.2 - Other information

VOC content	374.125 g/l 51.25%
Minimum ignition energy	No data available
Conductivity	No data available
Refractive index	No data available
Solids content	No data available
Surface tension	No data available
Saturation concentration	No data available

SECTION 10: Stability and reactivity

10.1 - Reactivity

- Extremely flammable aerosol. Pressurized container: May burst if heated.

10.2 - Chemical stability

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- The product is chemically stable under recommended conditions of storage, use and temperature.

10.3 - Possibility of hazardous reactions

- No hazardous reaction when handled and stored according to provisions.

10.4 - Conditions to avoid

- Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.
- Vapours can form explosive mixtures with air.

10.5 - Incompatible materials

- No information available.

10.6 - Hazardous decomposition products

- Does not decompose when used for intended uses.

SECTION 11: Toxicological information

11.1 - Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity - Based on available data, the classification criteria are not met.

Toxicity : Mixture

LD50 oral (rat)	No data available
LD50 dermal (rat)	No data available
LD50 dermal (rabbit)	No data available
LC50 inhalation (rat)	No data available
LC50 inhalation dusts and mists (rat)	No data available
LC50 inhalation vapours (rat)	No data available

Toxicity : Substances

Hydrocarbons, C6, isoalkanes, <5% n-hexane ()	
LD50 oral (rat)	> 16750 mg/kg
LD50 dermal (rabbit)	> 3350 mg/kg
LC50 inhalation vapours (rat)	73860 mg/l Industrial Medicine, Vol. 39, No. 5, May (OECD Guideline 403)

Skin corrosion/irritation - Irritation, Category 2 - Causes skin irritation.

Serious eye damage/eye irritation - Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation - Based on available data, the classification criteria are not met.

Germ cell mutagenicity - Based on available data, the classification criteria are not met.

Carcinogenicity - Based on available data, the classification criteria are not met.

Reproductive toxicity - Based on available data, the classification criteria are not met.

STOT-single exposure - STOT-single exposure - Category 3 (H336) - May cause drowsiness or dizziness.

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STOT-repeated exposure - Based on available data, the classification criteria are not met.

Aspiration hazard - Aspiration hazard - Category 1 - May be fatal if swallowed and enters airways.

11.2 - Information on other hazards

- This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

SECTION 12: Ecological information

12.1 - Toxicity

Toxicity : Mixture

EC50 48 hr crustacea	No data available
LC50 96 hr fish	No data available
ErC50 algae	No data available
ErC50 other aquatic plants	No data available
NOEC chronic fish	No data available
NOEC chronic crustacea	No data available
NOEC chronic algae	No data available
NOEC chronic other aquatic plants	No data available

- Toxic to aquatic life with long lasting effects.

Toxicity : Substances

Hydrocarbons, C6, isoalkanes, <5% n-hexane ()	
EC50 48 hr crustacea	31.9 mg/l Daphnia magna
LC50 96 hr fish	18.27 mg/l Oncorhynchus mykiss (Rainbow trout)
ErC50 algae	13.56 mg/l Raphidolcelis subcapitata
NOEC chronic fish	4.089 mg/l Oncorhynchus mykiss (Rainbow trout) 28 d
NOEC chronic crustacea	7.138 mg/l Daphnia magna 21 d

12.2 - Persistence and degradability

Mixture

Biochemical oxygen demand (BOD)	No data available
Chemical oxygen demand (COD)	No data available
% of biodegradation in 28 days	No data available

- No information available.

Substances

Hydrocarbons, C6, isoalkanes, <5% n-hexane ()	
% of biodegradation in 28 days	98 %

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12.3 - Bioaccumulative potential

Mixture

Bioconcentration factor (BCF)	No data available
Log KOC	No data available

- No indication of bioaccumulation potential.

Substances

Hydrocarbons, C6, isoalkanes, <5% n-hexane ()	
Bioconcentration factor (BCF)	>= 11.73
Log KOC	5.8
butane (106-97-8)	
Log KOC	1.09 < V < 2.8
propane (74-98-6)	
Log KOC	2.36

12.4 - Mobility in soil

- No information available.

12.5 - Results of PBT and vPvB assessment

- This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

- This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

12.6 - Endocrine disrupting properties

- This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7 - Other adverse effects

- Avoid release to the environment.

SECTION 13: Disposal considerations

13.1 - Waste treatment methods

<u>Waste treatment methods</u>	<ul style="list-style-type: none"> - Do not allow to enter into surface water or drains. - Do not allow to enter into soil/subsoil. - Dispose of waste according to applicable legislation. - Non-contaminated packages may be recycled. - Handle contaminated packages in the same way as the substance itself.
<u>Sewage disposal</u>	- No information available.
<u>Special precautions for waste treatment</u>	- No information available.
<u>Community or national or regional provisions</u>	- No information available.
<u>Waste codes / waste designations according to Regulation 2014/955/UE</u>	16 05 04* - gases in pressure containers (including halons) containing hazardous substances

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SECTION 14: Transport information

14.1 - UN number or ID number

<u>UN number (ADR)</u>	:	UN1950
<u>UN number (RID)</u>	:	UN1950
<u>UN number (ADN)</u>	:	UN1950
<u>UN number (IMDG)</u>	:	UN1950
<u>UN number (IATA)</u>	:	UN1950

14.2 - UN proper shipping name

<u>UN proper shipping name (ADR)</u>	:	AEROSOLS
<u>UN proper shipping name (RID)</u>	:	AEROSOLS
<u>UN proper shipping name (ADN)</u>	:	AEROSOLS
<u>UN proper shipping name (IMDG)</u>	:	AEROSOLS
<u>UN proper shipping name (IATA)</u>	:	AEROSOLS, FLAMMABLE

14.3 - Transport hazard class(es)

<u>ADR Transport hazard class(es)</u>	:	2
<u>ADR Classification code:</u>	:	5F
<u>Pictograms</u>		



<u>Transport hazard class(es) (RID)</u>	:	2
<u>Pictograms</u>		



<u>Transport hazard class(es) (ADN)</u>	:	2
<u>Pictograms</u>		



<u>Transport hazard class(es) (IMDG)</u>	:	2
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Pictograms



Transport hazard class(es) : 2.1
(IATA)

Pictograms



14.4 - Packing group

Packing group :
Packing group (RID) :
Packing group (ADN) :
Packing group (IMDG) :
Packing group (IATA) :

14.5 - Environmental hazards

Environmental hazards : No
Marine pollutant : No

14.6 - Special precautions for user

ADR

ADR Classification code: : 5F
ADR Special provisions : 190+327+344+625
ADR Limited quantity (LQ) : 1L
ADR Excepted quantities : E0
ADR Packing instructions :



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<u>ADR Special packing provisions</u>	:	
<u>ADR Mixed packing provisions</u>	:	
<u>Instructions for portable tanks and bulk containers</u>	:	
<u>Special provisions for portable tanks and bulk containers</u>	:	
<u>ADR tank code</u>	:	
<u>ADR tanks special provisions</u>	:	
<u>Vehicle for tank carriage</u>	:	
<u>ADR Transport category</u>	:	2
<u>ADR Tunnel restriction code</u>	:	D
<u>ADR Special provisions loading, unloading and handling</u>	:	
<u>Special provisions - Packages</u>	:	V14
<u>Special provisions - Bulk</u>	:	
<u>Special provisions - Operation</u>	:	S2
<u>ADR Hazard identification number (Kemler No.)</u>	:	
<u>RID</u>		
<u>Special provisions</u>	:	190+327+344+625
<u>Limited quantity (LQ)</u>	:	1 L
<u>Excepted quantities</u>	:	E0
<u>ADN</u>		
<u>Special provisions</u>	:	190+327+344+625
<u>Limited quantity (LQ)</u>	:	1 L
<u>Excepted quantities</u>	:	E0
<u>IMDG</u>		
<u>Special provisions</u>	:	63 190 277 327 344 381 959
<u>Limited quantity (LQ)</u>	:	1000 mL
<u>Excepted quantities</u>	:	E0
<u>Packing instructions</u>	:	
<u>Special packing provisions</u>	:	
<u>IBC instruction(s)</u>	:	
<u>IBC provisions</u>	:	
<u>Instructions for portable tanks and bulk containers</u>	:	
<u>Special provisions for portable tanks and bulk containers</u>	:	
<u>EmS codes</u>	:	F-D, S-U
<u>Stowage and handling</u>	:	Category None SW1 SW22
<u>Segregation</u>	:	
<u>Properties and observations</u>	:	
<u>IATA</u>		
<u>PCA - Excepted quantities</u>	:	E0
<u>PCA - Limited Quantity - Packing Instructions</u>	:	Y203
<u>PCA - Limited Quantity - Maximum Net Quantity per Package</u>	:	30kg
<u>PCA - Packing Instructions</u>	:	203
<u>PCA - Maximum Net Quantity per Package</u>	:	75kg

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<u>CAO - Packing Instructions</u>	:	203
<u>CAO - Maximum Net Quantity per Package</u>	:	150kg
<u>Special Provisions</u>	:	A145 A167 A802
<u>ERG Code</u>	:	

14.7 - Maritime transport in bulk according to IMO instruments

SECTION 15: Regulatory information

15.1 - Safety, health and environmental regulations/legislation specific for the substance or mixture

Substances REACH candidates None

Substances Annex XIV None

Substances Annex XVII None

VOC content 374.125 g/l

- -- COMMISSION REGULATION (EU) 2016/918 of 19 May 2016 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures. The Regulation has been published in the Official Journal of the European Union No. L 156, on 14 June, 2016;

- -- COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Regulation (EC) No. 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (OJ L 203, 26.6.2020, p. 28–58);

- -- COUNCIL DIRECTIVE of 20 May 1975 on the approximation of the laws of the Member States relating to aerosol dispensers (75/324/EEC) (OJ L 147, 9.6.1975, p. 40)

- -- On 16 December 2008 the Regulation (EC) No. 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of chemical substances and mixtures was undersigned. The said Regulation amended and repealed the directives 67/548/EEC and 1999/45/EC and Regulation (EC) No. 1907/2006 (the REACH Regulation). The Regulation has been published in the Official Journal of the European Union No. L 353, volume 51 on 31 December, 2008;

- -- The European Agreement concerning International Carriage of Dangerous Goods by Road (ADR).

- Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work

- Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

- Swiss Regulations: Article 4 para. 4 of the Ordinance on the protection of young people in the workplace (SR 822.115) and Article 1 lit. f of the EAER regulation on hazardous work and young people (SR 822.115.2).

- Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]

- P3a Flammable aerosols

- 850/2004/EC, 79/117/EEC, 689/2008/EC, 2008/47/EC

- Use restriction according to REACH annex XVII, no.: 3, 28, 40

15.2 - Chemical Safety Assessment

Chemical safety assessment carried out for the product - A chemical safety assessment was carried out for the following substances in this mixture: Hydrocarbons, C6, isoalkanes, < 5% n-hexane

SECTION 16: Other information

SDS versions

Version	Issue date	Author	Description of the amendments
4	07/01/2025		
3	06/12/2024		

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2	26/05/2023		
1	22/06/2022		

Indication of changes: Section: 1, 2, 3, 8, 9, 15, 16.

Abbreviations and acronyms

- ACGIH – Association advancing occupational and environmental health.
- ADN – European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.
- ADR – European Agreement concerning the International Carriage of Dangerous Goods by Road.
- ADR: The Agreement concerning the International Carriage of Dangerous Goods by Road
- ATE: Acute Toxicity Estimate.
- CAS – Chemical Abstracts Service number.
- CAS No.: Chemical Abstracts Service number.
- CEN – European Committee for Standardisation.
- DNEL: Derived no-effect level.
- EC No: European Community number
- EC50 – Effective concentration to 50% of a test population (half maximal effective concentration).
- EC50: Effective concentration of the substance that causes adverse effects in 50% of test animals.
- IATA: International Air Transport Association.
- IC50 – Inhibitory concentration to 50% of a test population (half maximal inhibitory concentration).
- ICAO: International Civil Aviation Organization
- IMDG – International Maritime Dangerous Goods.
- IMDG: International Maritime Dangerous Goods.
- IMO – International Maritime Organization.
- LC50 – Lethal Concentration to 50 % of a test population.
- LC50: Lethal Concentration to 50 % of a test animals.
- LD50 – Lethal Dose to 50% of a test population (Median Lethal Dose).
- LD50: Lethal Dose to 50% of a test animals.
- LOEC: Lowest Observed Effect Concentration.
- LOEL: Lowest Observed Adverse Effect Level.
- MSDS – Material Safety Data Sheet.
- NIOSH – National Institute of Occupational Safety and Health.
- NOEC – No effect concentration.
- NOEC: No Observed Effect Concentration.
- NOEL: No observable effect level.
- OEL: Occupational exposure limit.
- PBT – Persistent, Bioaccumulative and Toxic substance.
- PBT: Persistent, Bioaccumulative and Toxic.
- PNEC(s) – Predicted No Effect Concentration(s).
- PNEC: Predicted no-effect concentration.
- RID – Regulations concerning the International Carriage of Dangerous Goods by Rail.
- RID: International Carriage of Dangerous Goods by Rail.
- STEL: Short-term exposure limit

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- STOT – Specific Target Organ Toxicity.
- TWA: Time weighted average
- vPvB – Very Persistent and Very Bioaccumulative.
- vPvB: very Persistent and very Bioaccumulative.

Data sources:

European Chemicals Agency (ECHA)
European Chemicals Bureau (ECB)
International Laboratories Organization (ILO)

Texts of the regulatory sentences

Aerosol 1	Aerosol - Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment - Aquatic Chronic 2
Aquatic Chronic 3	Hazardous to the aquatic environment - Aquatic Chronic 3
Asp. Tox. 1	Aspiration hazard - Category 1
Flam. Gas 1	Flammable gas. - Category 1
Flam. Liq. 2	Flammable liquid and vapour. - Category 2
H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
Press. Gas	Gases under pressure
Skin Irrit. 2	Irritation, Category 2
STOT SE 3	STOT-single exposure - Category 3 (H336)

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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